COURSERA FINAL PROJECT

SPECIALIZED MODELS: TIME SERIES AND SURVIVAL ANALYSIS

Time Series Forecasting to predict grocery sales at Favorita stores

Project presented by

Raziel Amador Rios

to obtain the Coursera Certificate

Main object: produce a reliable forecasting based on sales time-series data from a retail store (Favorita stores, an Ecuadorian-based company).

Barcelona, January 2023

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Time Series Forecasting

I

Main objective

The **main object** of the project is to generate a reliable **time series forecasting** based on sales from Favorita stores which is a grocery retail store based in Ecuador. Producing an accurate forecast could lead to decreased food waste related to overstocking and improve customer satisfaction.

II

Data description

The dataset comes from **Kaggle** named: Store Sales - Time Series Forecasting. The Kaggle dataset contains sales data from *Corporación Favorita*, a large Ecuadorian-based grocery retailer. Kaggle provides you with 7 diffeent files (see Table 1 for more details).

Number	File Name	Description
1	holiday_events.csv	Relevant holidays in Ecuador
2	oil.csv	Oil prices from 2013 to 2017
3	sample_submission.csv	submission example
4	stores.csv	Stores metadata
5	test.csv	Stores and family products
6	train.csv	Sales by store and product-family from 2013-01 to 2017-08
7	transactions.csv	Number of transactions by store

Table 1: Kaggle files description. Files are alphabetically sorted.

Appendix